

FIG. 1

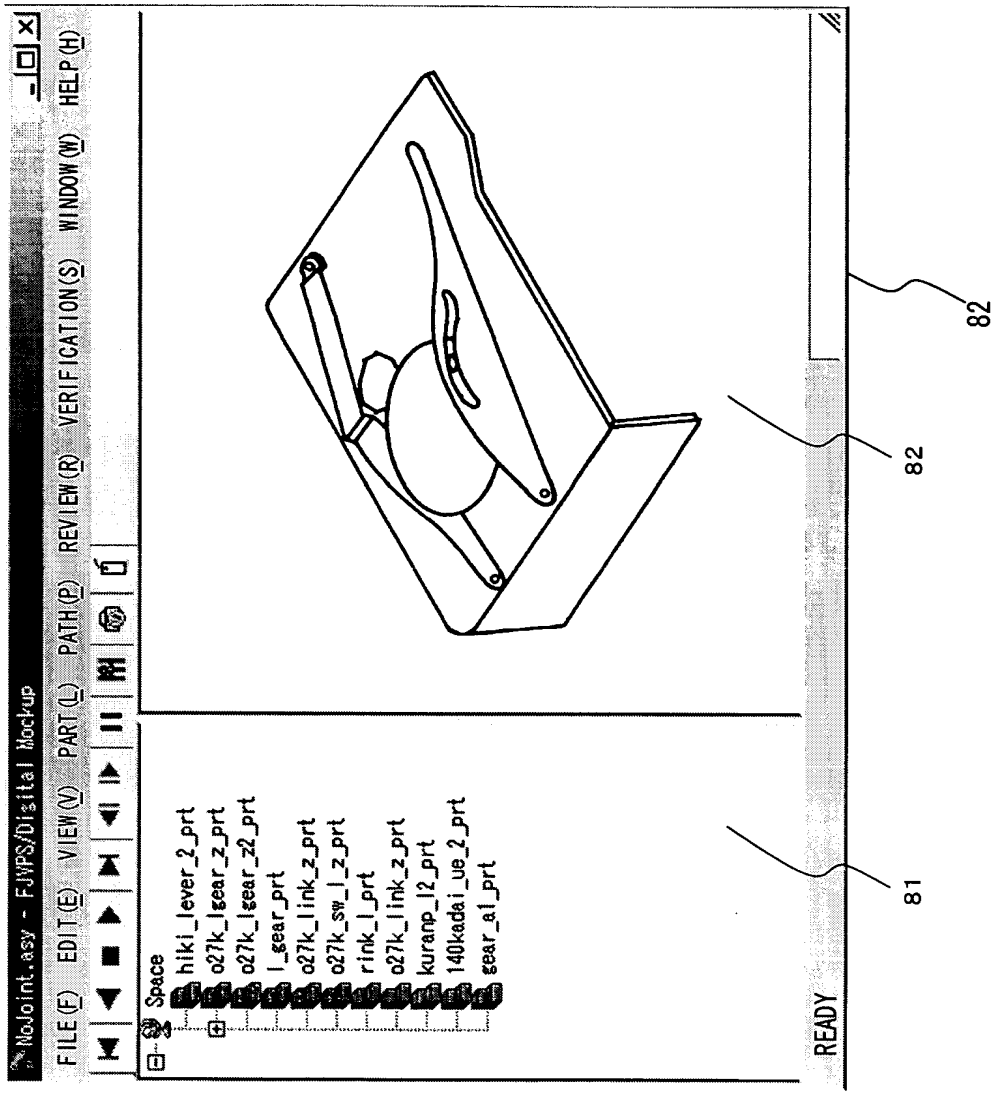
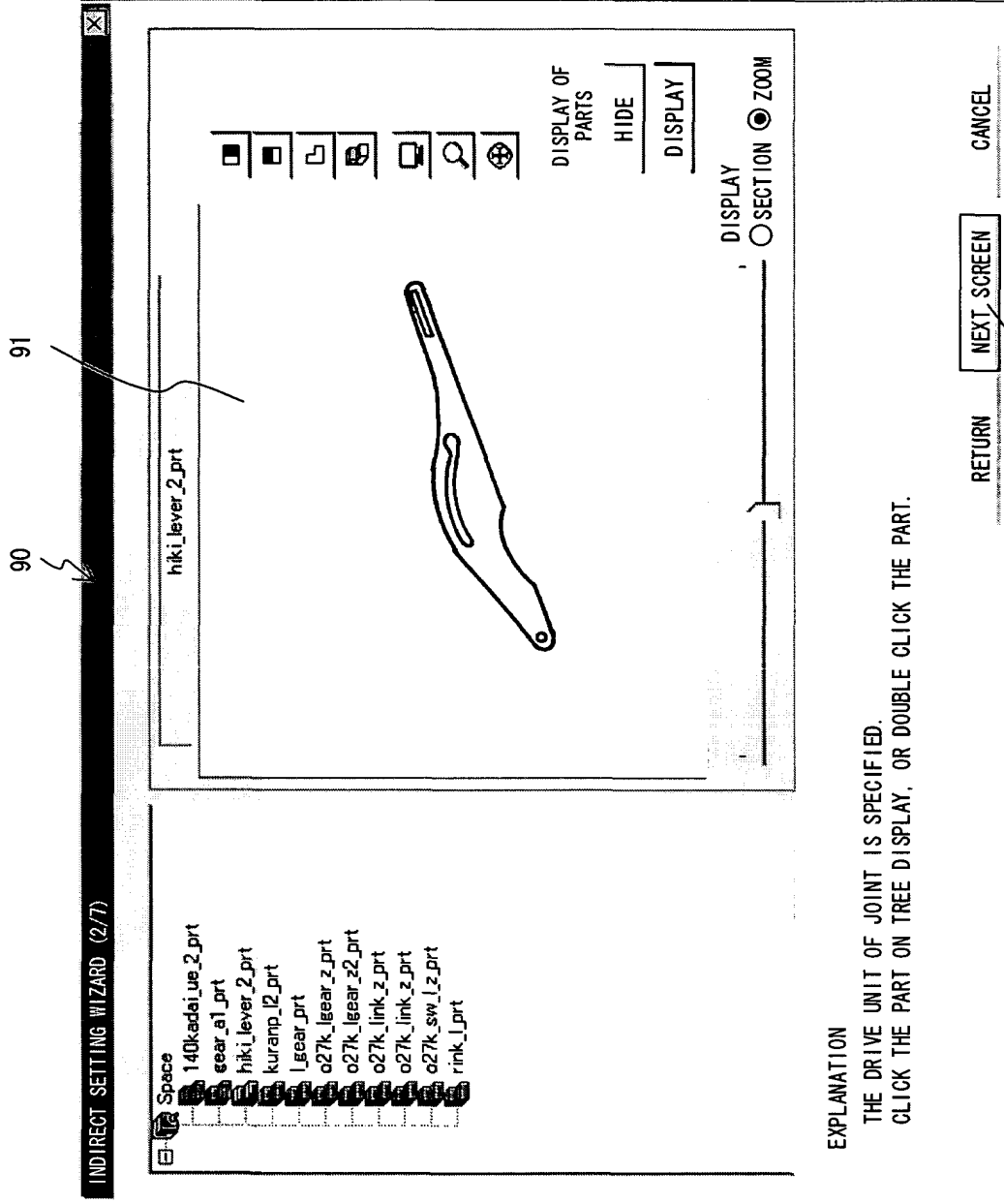


FIG. 2



#### EXPLANATION

THE DRIVE UNIT OF JOINT IS SPECIFIED.  
CLICK THE PART ON TREE DISPLAY, OR DOUBLE CLICK THE PART.

FIG. 3

INDIRECT SETTING WIZARD (3/7)

WORK COORDINATION

00c00014

AXIS ADJUSTMENT

ROTATION

SPECIFYING METHOD

INVERSE

0.0

SPECIFYING METHOD

☐ DISPLAYING VERTEX

ARBITRARY

AXIS

EDGE

END POINT

☒ POSITION

☒ POSTURE

DIRECT MOVEMENT

☒ ORIGIN

☐ CENTER OF MASS

☐ SYSTEM COORDINATE

☒ POSITION

☐ POSTURE

☐ MOVEMENT

POSITION (mm)

X

-0.00

Y

0.00

Z

-0.00

INCREMENT

6.21

RETURN

NEXT SCREEN

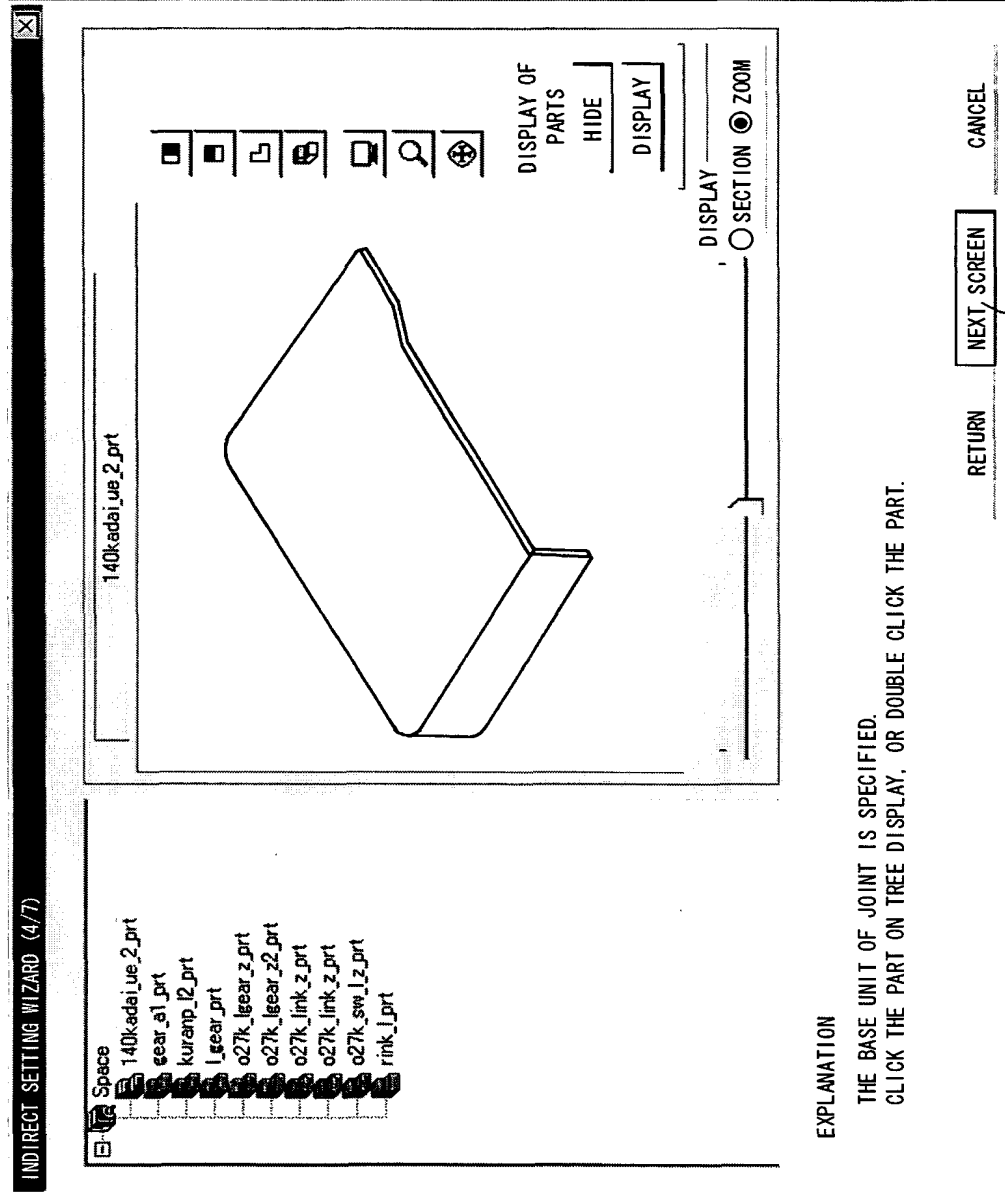
CANCEL

EXPLANATION

SPECIFIED AXIS AND HOLE IN THE VICINITY USING THE MOUSE, AND CHANGE THE AXIS.

FIG. 4

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#### EXPLANATION

THE BASE UNIT OF JOINT IS SPECIFIED.

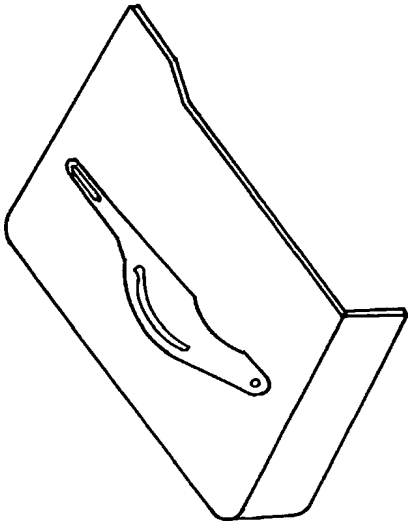














CLICK THE PART ON TREE DISPLAY, OR DOUBLE CLICK THE PART.

FIG. 5

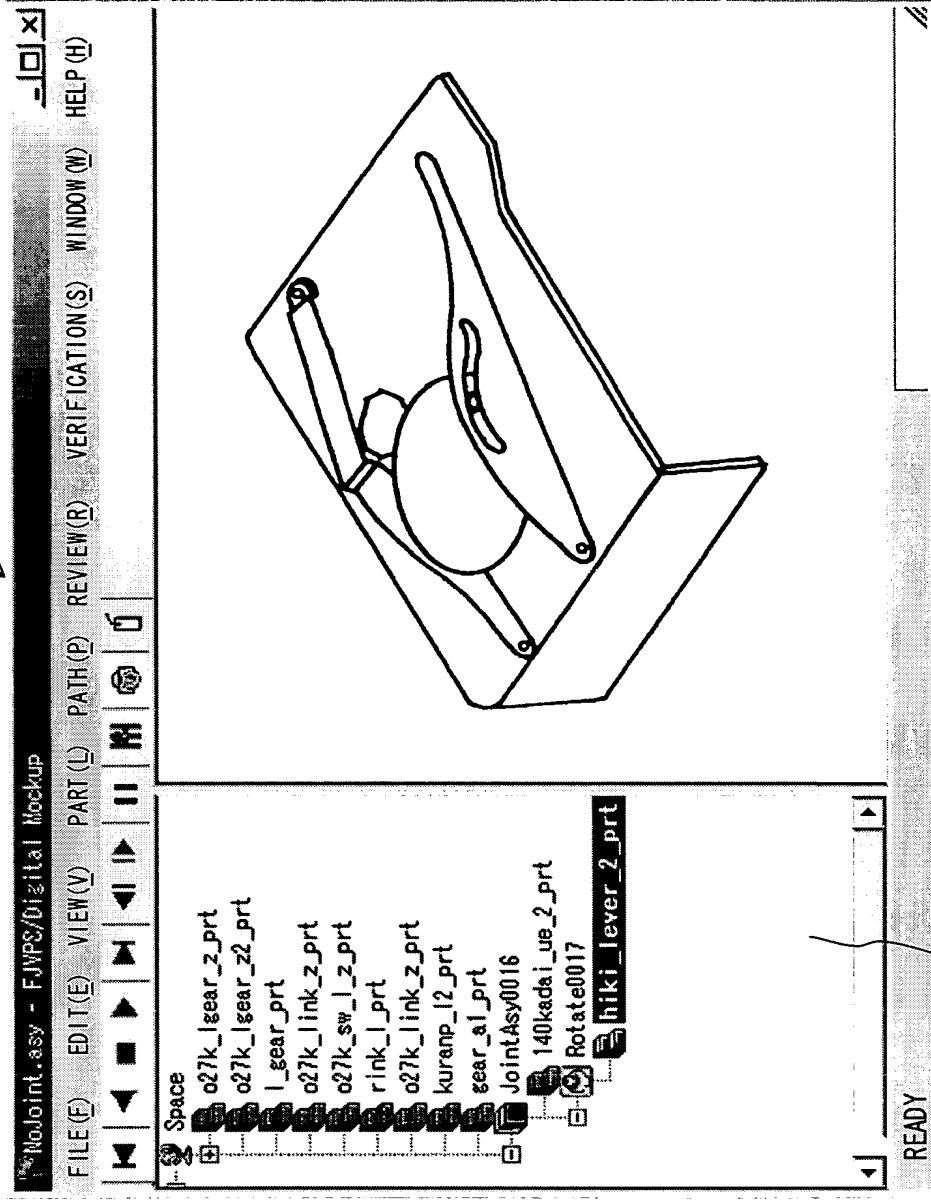
111

INDIRECT SETTING WIZARD (7/7)

X

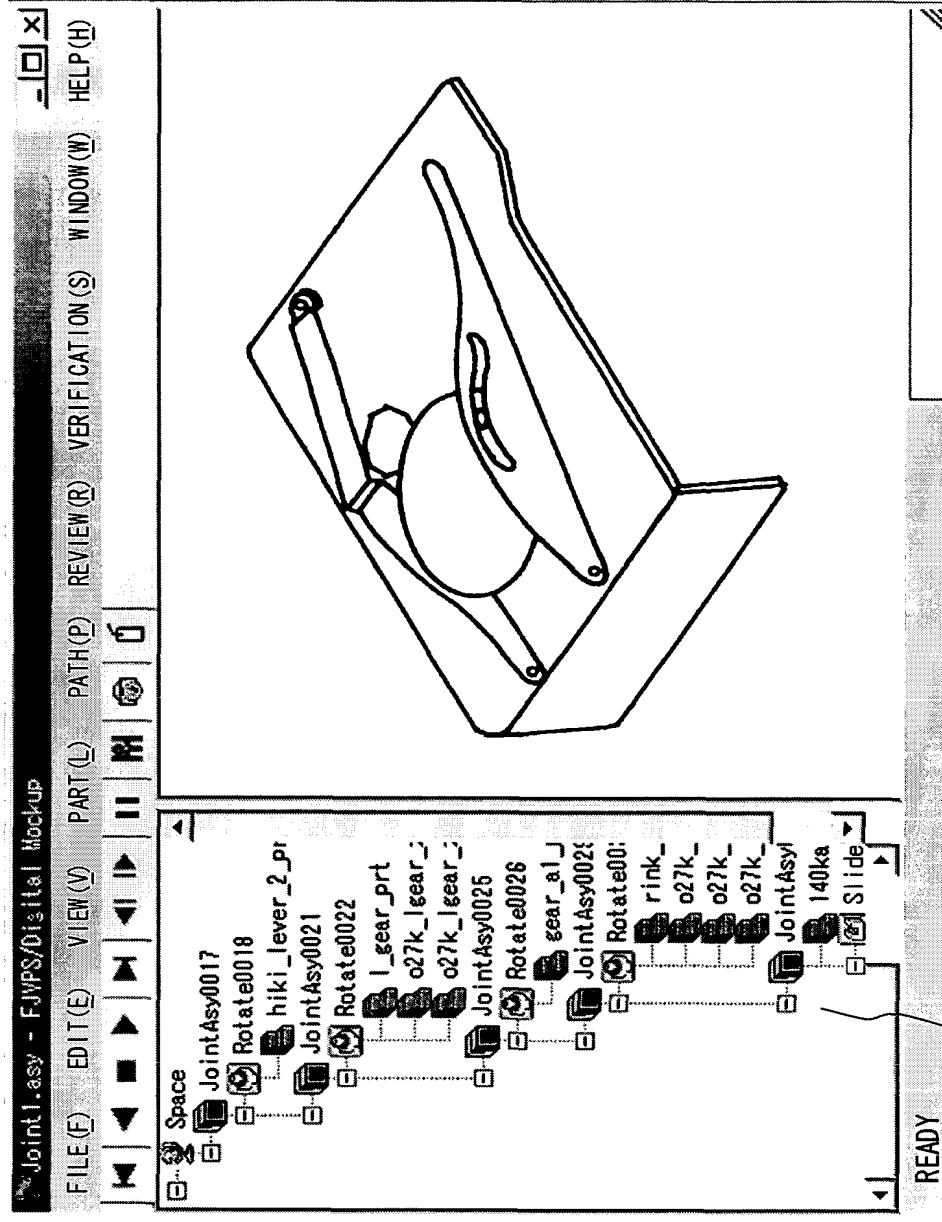
<div style="text-align: center;"></div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"></div>	<div style="border-bottom: 1px solid black; margin-bottom: 10px;"><div style="display: flex; justify-content: space-between;"><span>JOINT NAME</span><span>JointAsy0016</span></div></div> <div style="display: flex; justify-content: space-between;"><div style="width: 45%; border: 1px solid black; padding: 5px;"><p>MOVING RANGE</p><div style="display: flex; justify-content: space-between;"><div><input checked="" type="checkbox"/> MINIMUM VALUE</div><div><input type="checkbox"/> MAXIMUM VALUE</div></div><div style="display: flex; justify-content: space-between; margin-top: 10px;"><div><div style="border: 1px solid black; padding: 2px; width: 50px; text-align: center;">0.000</div></div><div><div style="border: 1px solid black; padding: 2px; width: 50px; text-align: center;">20.000</div></div></div><div style="text-align: center; margin-top: 10px;"><input type="checkbox"/> THE TEST OF RESTRICTED CONDITIONS</div></div><div style="width: 45%; border: 1px solid black; padding: 5px;"><p>INITIAL CONDITION</p><div style="display: flex; justify-content: space-between;"><div><div style="border: 1px solid black; padding: 2px; width: 50px; text-align: center;">INITIAL POSITION</div></div><div><div style="border: 1px solid black; padding: 2px; width: 50px; text-align: center;">INVERSE DIRECTION</div></div></div></div></div> <div style="margin-top: 20px;"><div style="display: flex; justify-content: space-between;"><div style="width: 45%;"><p>DRIVE</p><div style="display: flex; justify-content: space-between;"><div><div style="border: 1px solid black; padding: 2px; width: 50px; text-align: center;">MINIMUM</div></div><div><div style="border: 1px solid black; padding: 2px; width: 50px; text-align: center;">MAXIMUM</div></div></div><div style="margin-top: 10px;"><div style="border: 1px solid black; padding: 2px; width: 50px; text-align: center;">CURRENT VALUE</div></div></div><div style="width: 45%;"><p>INCREMENT</p><div style="border: 1px solid black; padding: 2px; width: 50px; text-align: center;">1</div></div></div></div> <div style="margin-top: 20px;"><div style="display: flex; justify-content: space-between;"><div style="width: 45%;"><p>EXPLANATION</p><div style="border: 1px solid black; height: 100px; margin-top: 5px;"></div></div><div style="width: 45%;"><p>DRIVE AXIS</p><div style="display: flex; justify-content: space-around; margin-top: 5px;"><span><input checked="" type="radio"/> ROLL</span><span><input checked="" type="radio"/> PITCH</span><span><input checked="" type="radio"/> YAW</span></div></div></div></div> <div style="text-align: center; margin-top: 20px;"><p>SET THE MOVING RANGE OF THE JOINT IF NECESSARY.</p></div>
<div style="display: flex; justify-content: space-between; width: 100%;"><span>RETURN</span><span>NEXT SCREEN</span><span>CANCEL</span></div>	

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FIG. 7







RELATION CLASSIFICATION SETUP

SET RELATION FOR JOINT PART.

TYPE

SPECIFY TYPE OF SET RELATION.

EXPLANATION

(1) MOVING (INTERLOCKED) UNIT.

(2) SET THE MOVING RANGE OF DRIVE PART.

(3) SET THE OPERATION WHILE CHECKING ON THE SCREEN.

RETURN

NEXT SCREEN

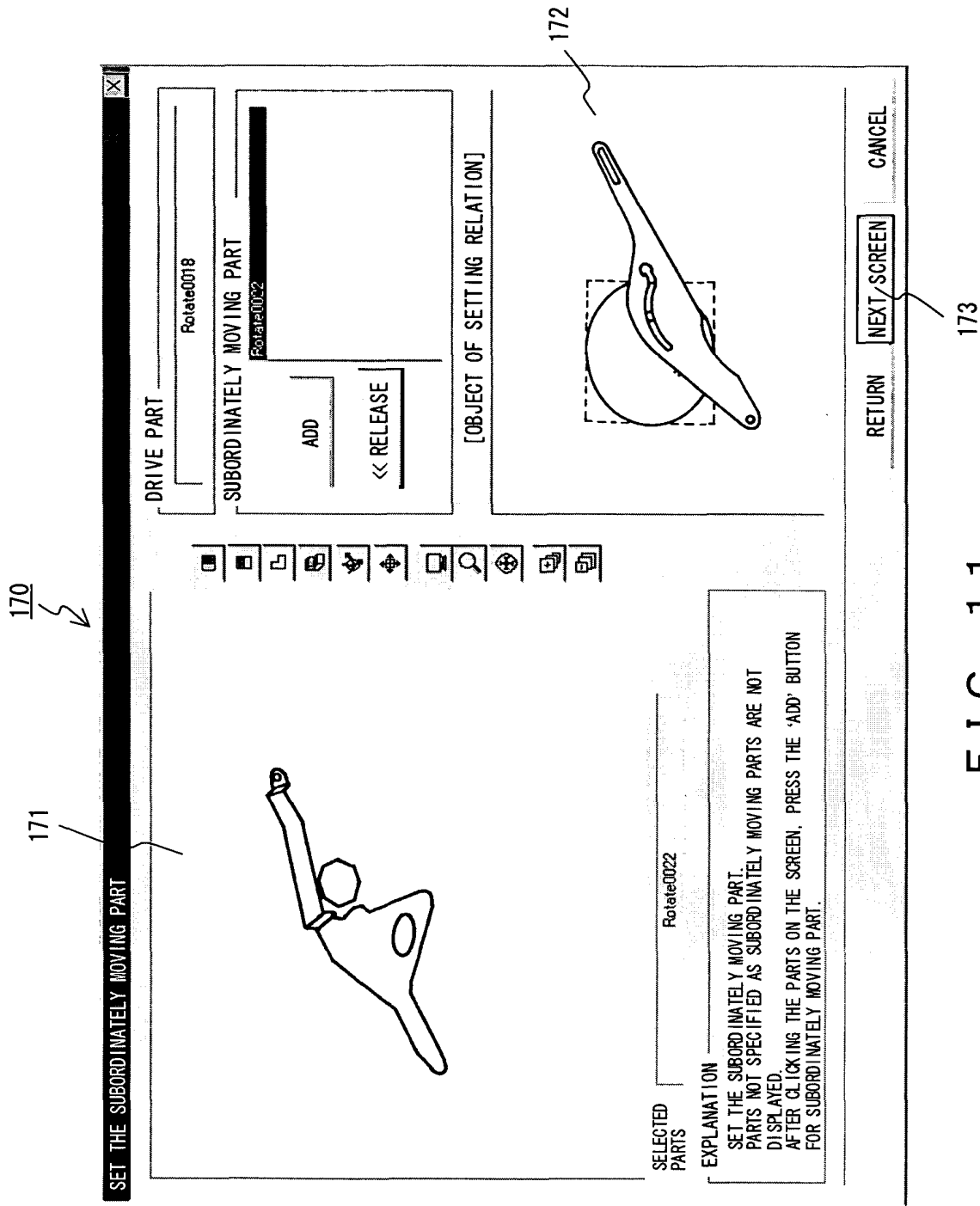
CANCEL

FIG. 9

161

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FIG. 10



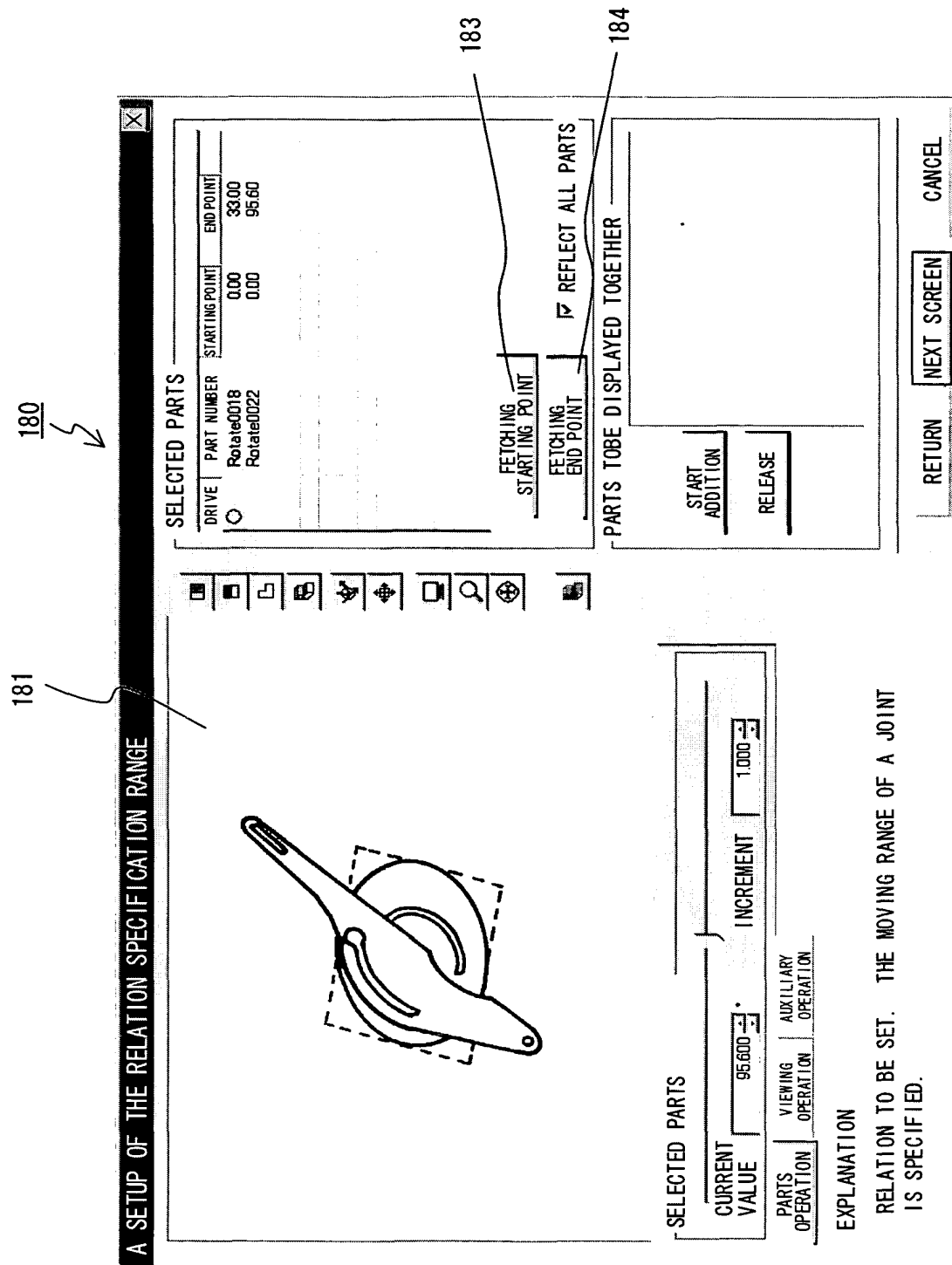
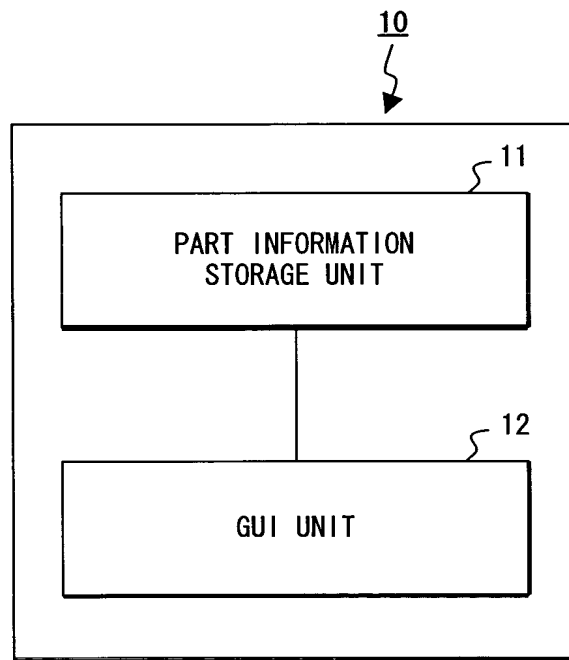


FIG. 12





F I G. 1 4

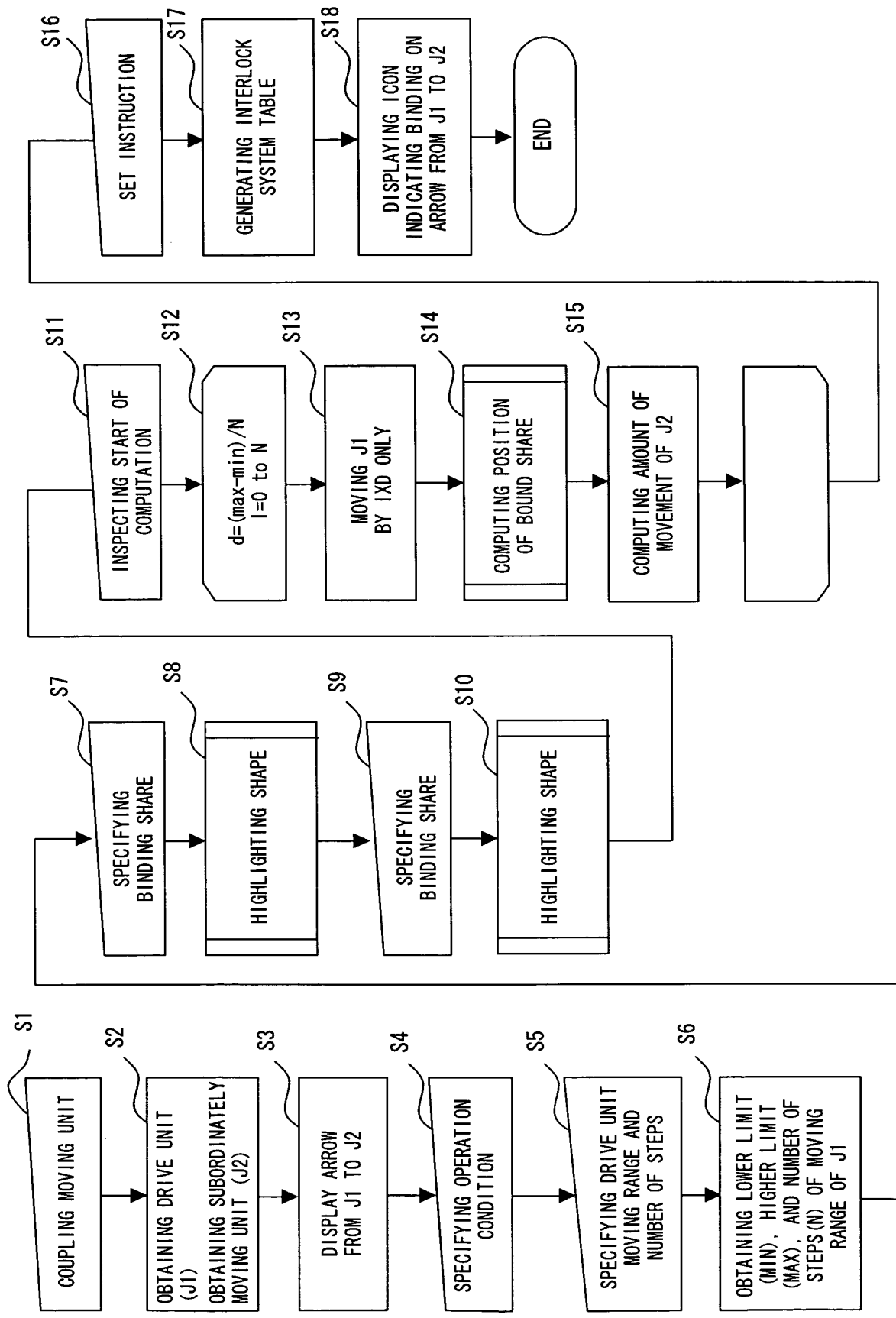


FIG. 15

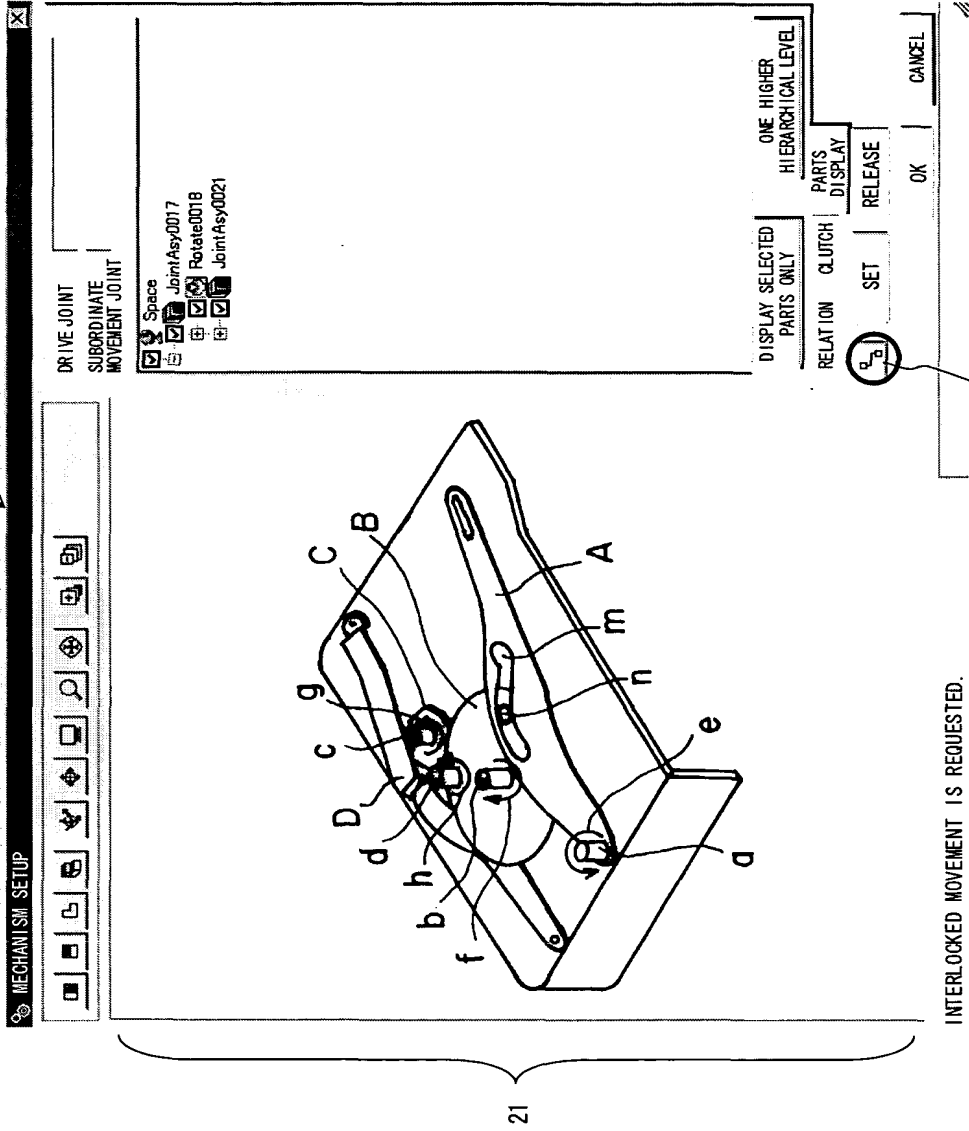


FIG. 16



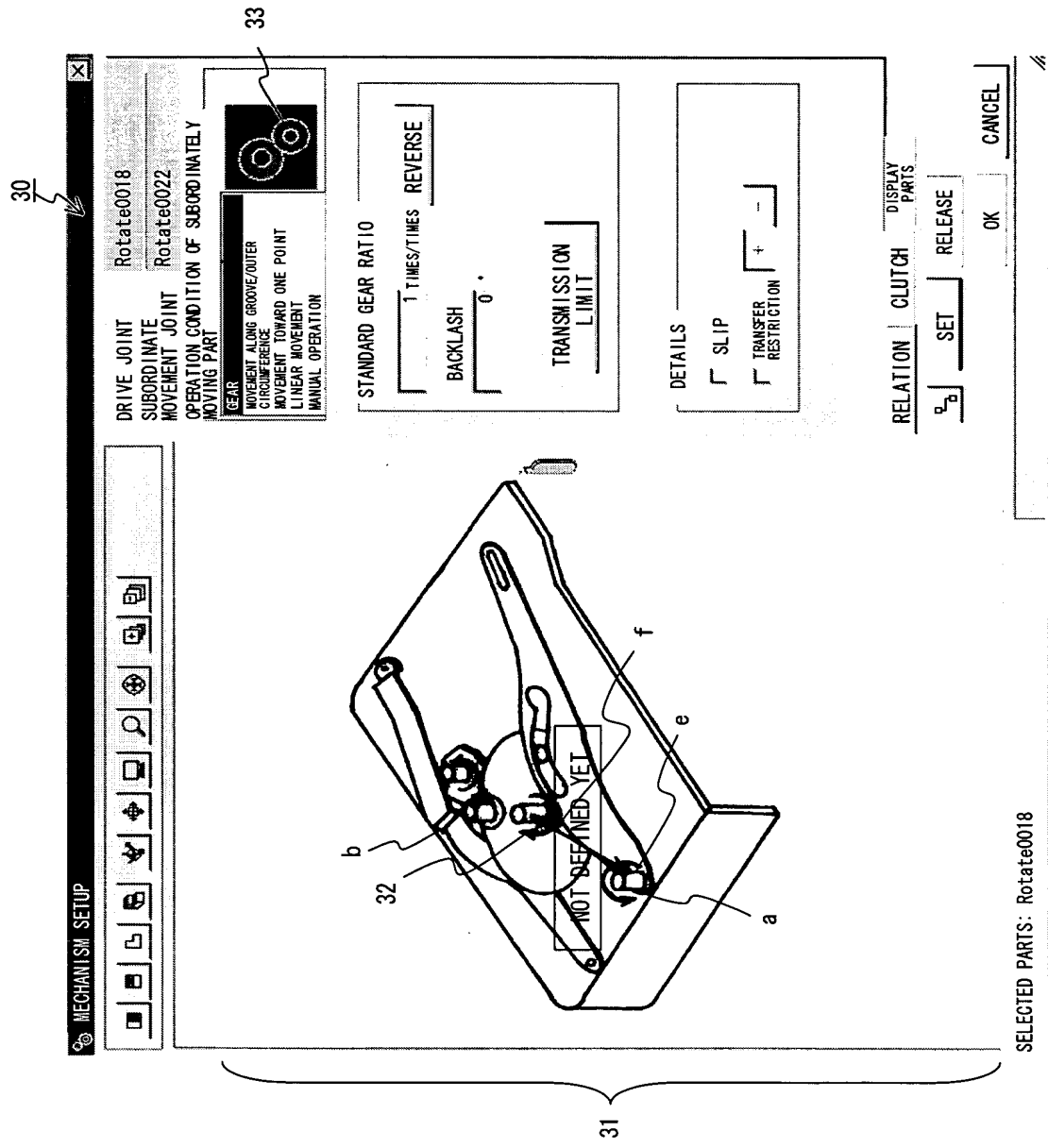


FIG. 17

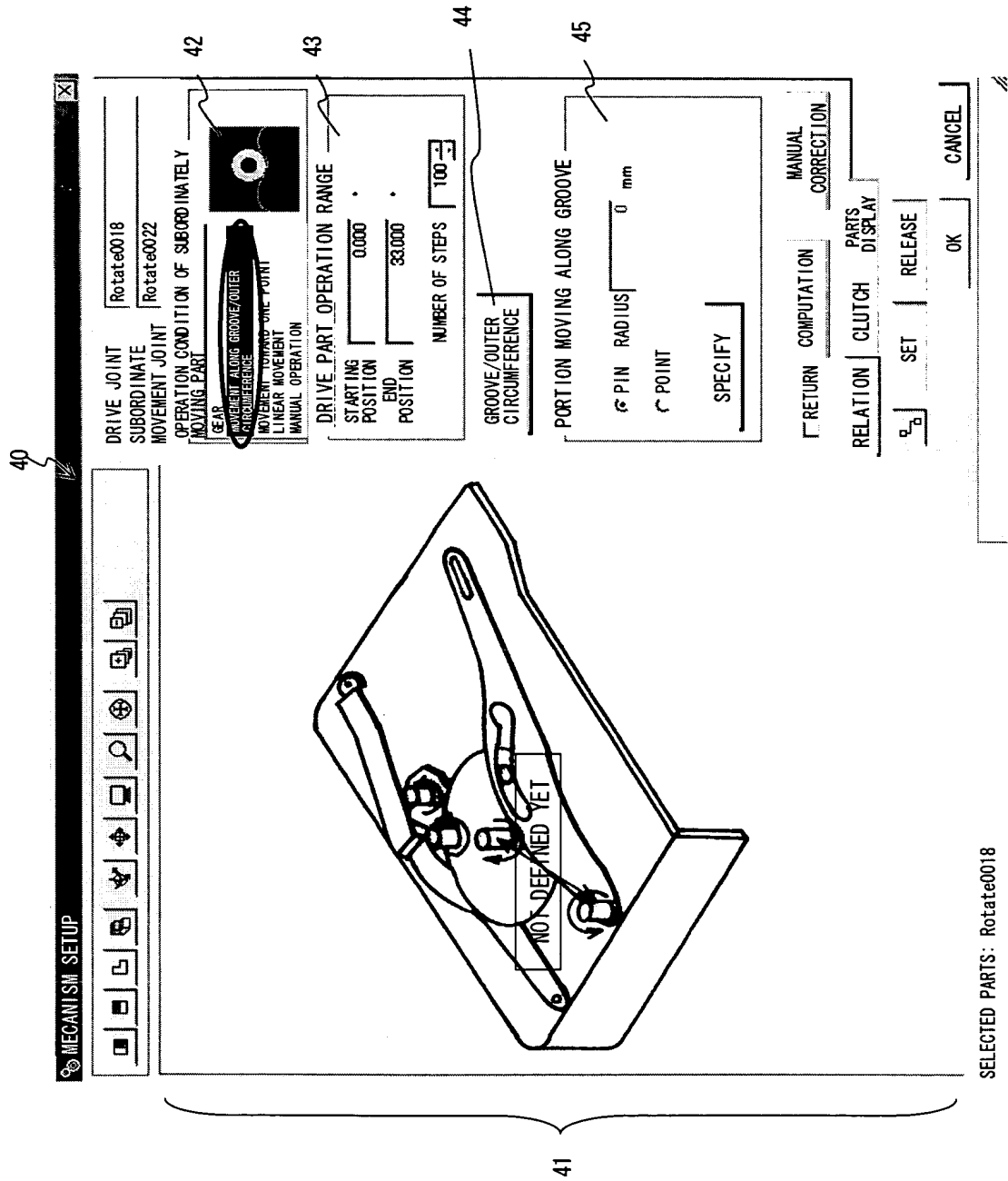


FIG. 18

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**MECHANISM SETUP**

DRIVE JOINT: Rotate0018  
 SUBORDINATE MOVEMENT JOINT: Rotate0022

OPERATION CONDITION OF SUBORDINATELY MOVING PART

GEAR  
 MOVEMENT ALONG GROOVE/OUTER CIRCUMFERENCE  
 MOVEMENT TOWARD ONE POINT  
 LINEAR MOVEMENT  
 MANUAL OPERATION

DRIVE PART OPERATION RANGE

STARTING POSITION: 0.000  
 END POSITION: 33.000  
 NUMBER OF STEPS: 100

GROOVE/OUTER CIRCUMFERENCE

PORTION MOVING ALONG GROOVE

☉ PIN RADIUS: 0 mm  
 ☉ POINT

SPECIFY

RETURN COMPUTATION MANUAL CORRECTION

RELATION CLUTCH PARTS DISPLAY

SET 設定 RELEASE

OK CANCEL

SELECTED PARTS: Rotate0018

NOT DEFINED YET

41

42

43

44

45

FIG. 19

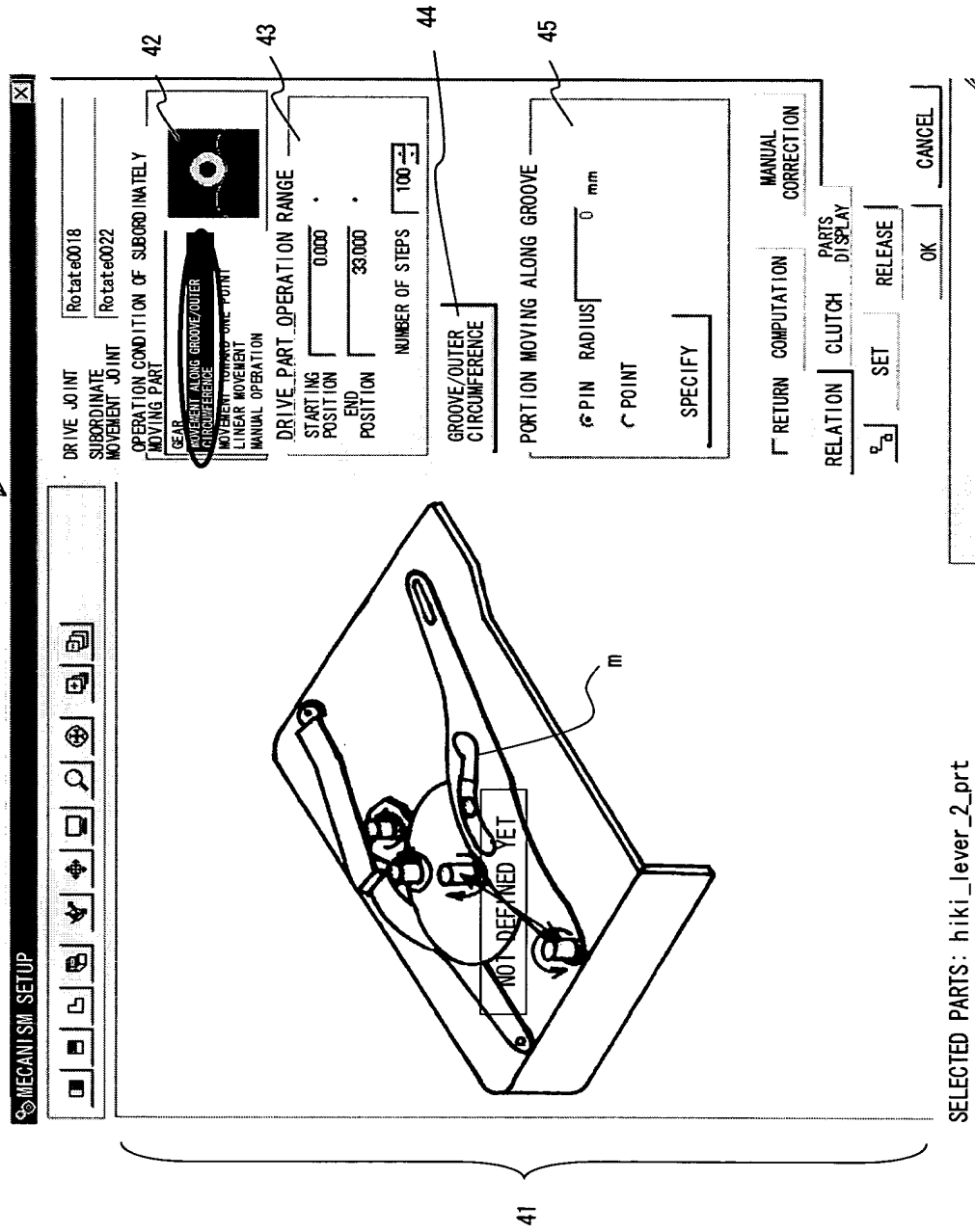
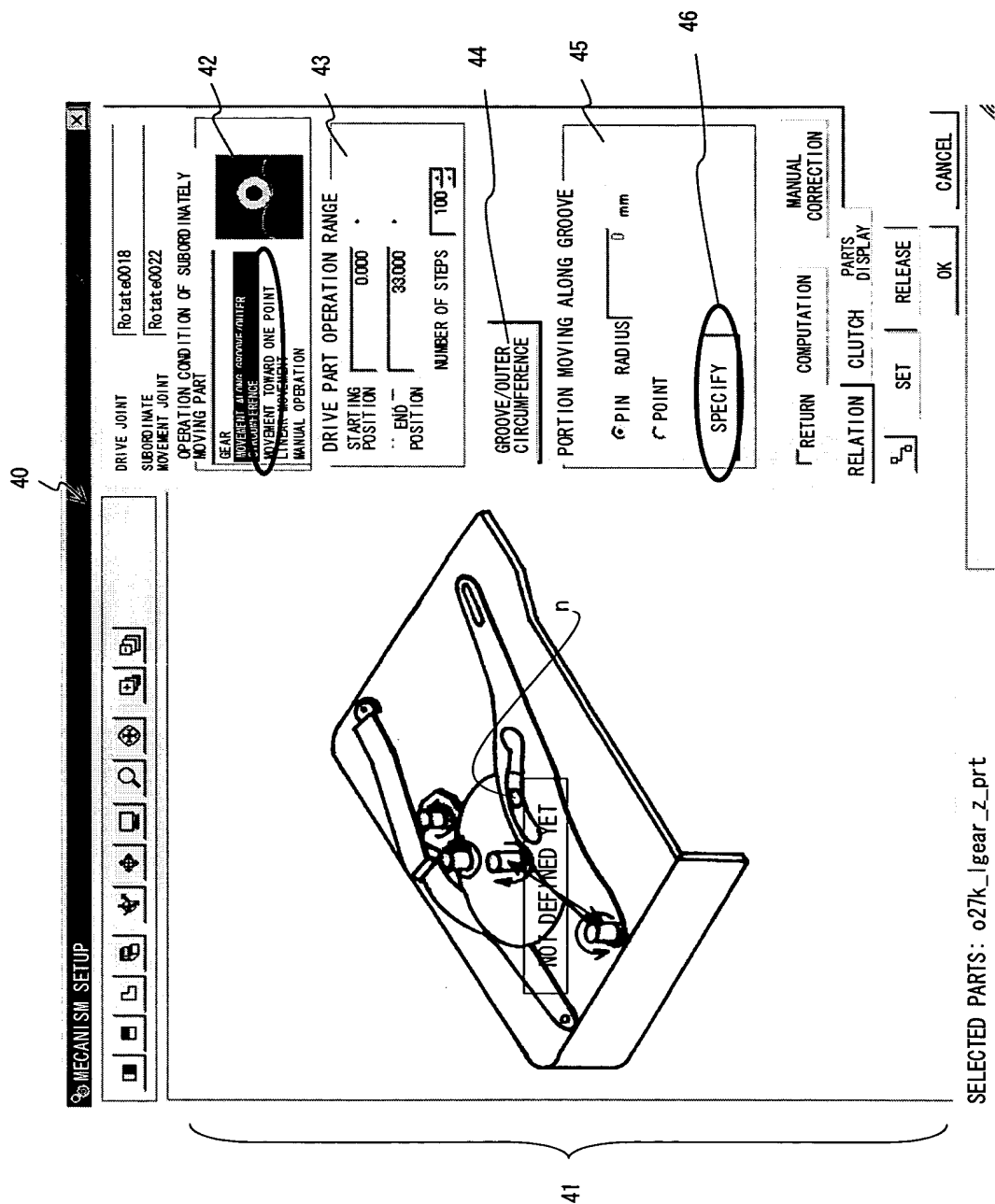


FIG. 20



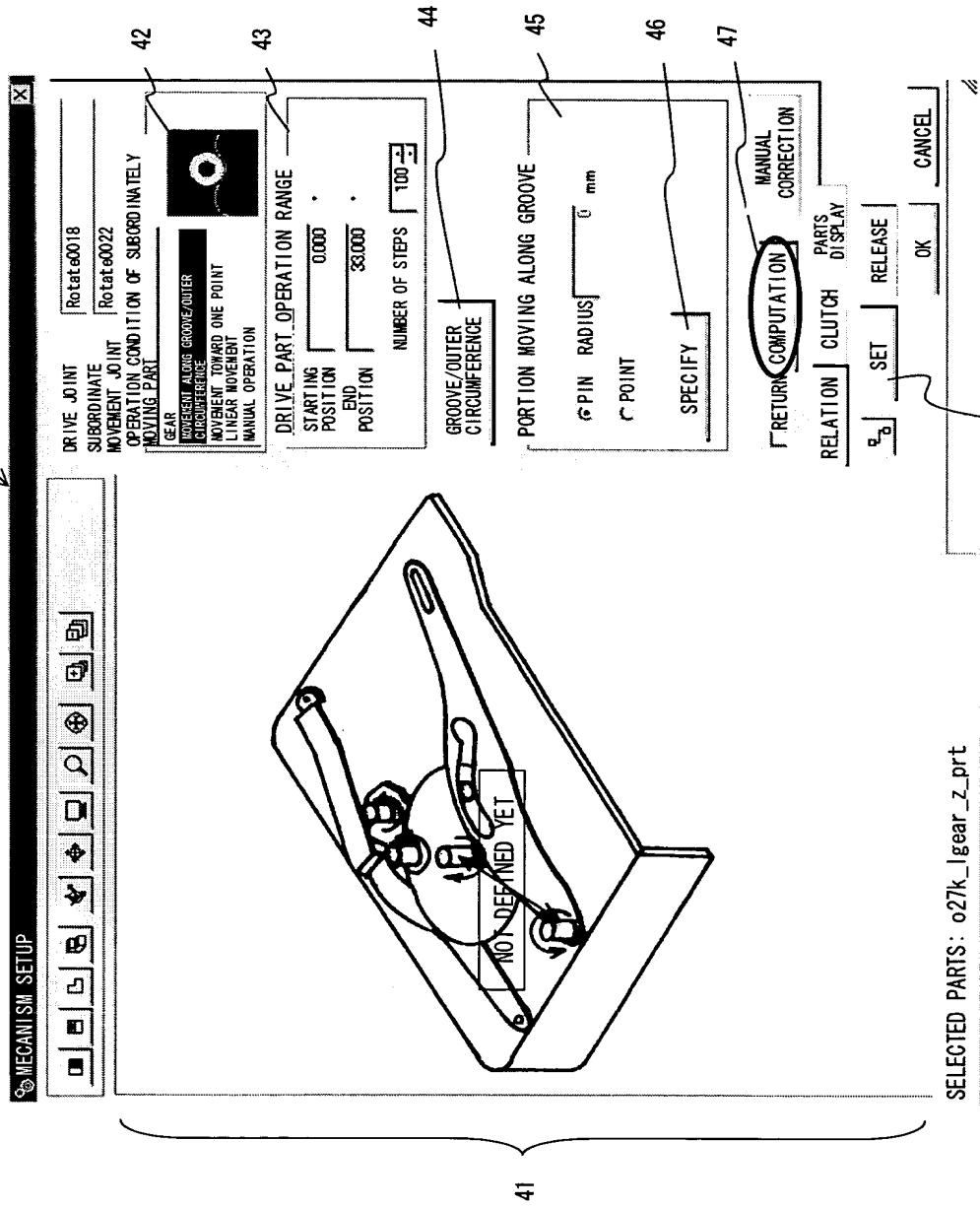


FIG. 22

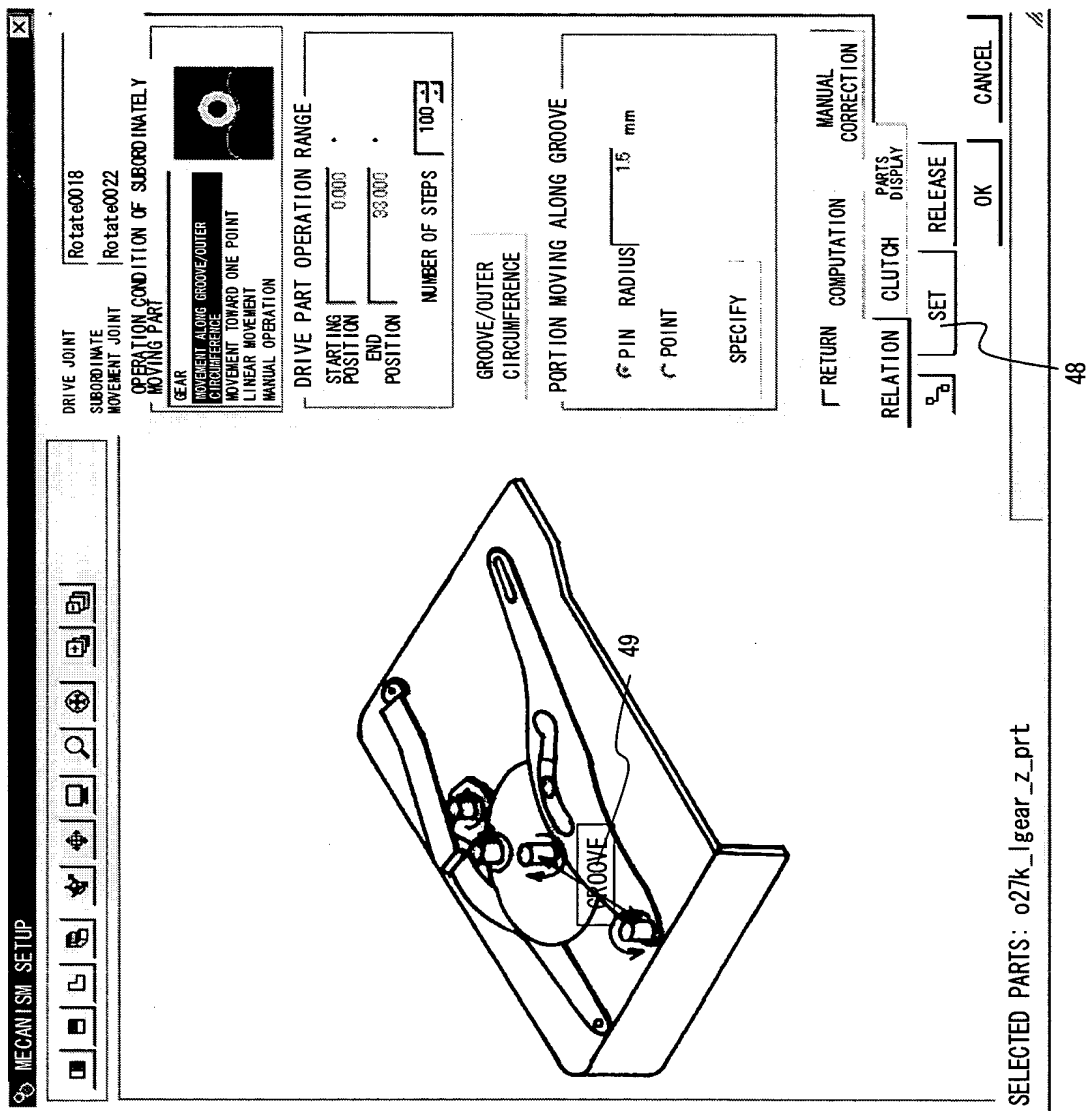
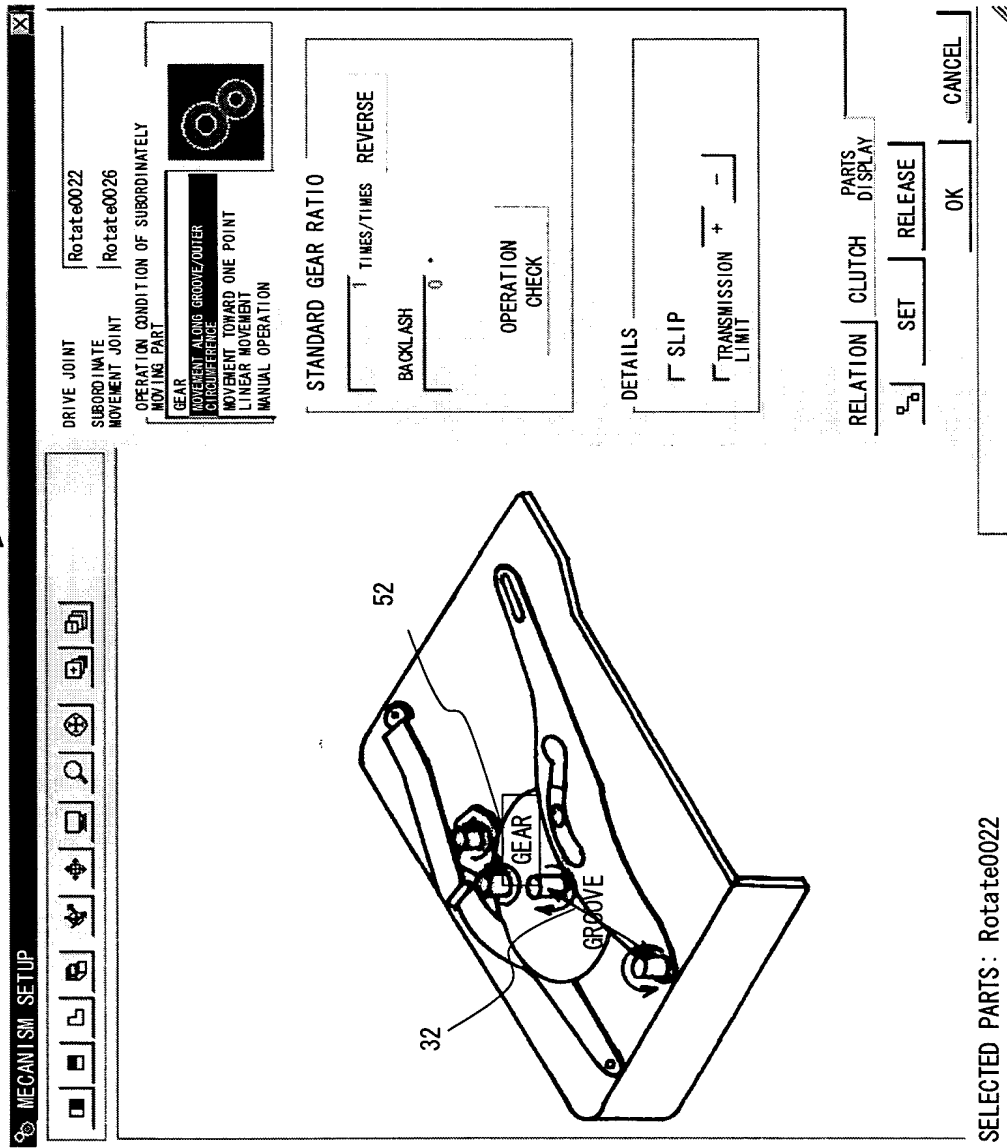


FIG. 23





MOVING UNIT A	MOVING UNIT B
0.00	-0.06
0.01	-0.03
0.02	0.00
0.03	0.03
:	:

F I G. 2 5 A

MOVING UNIT B	MOVING UNIT C
0.00	0.00
0.01	0.01
0.02	0.02
0.03	0.03
:	:

F I G. 2 5 B

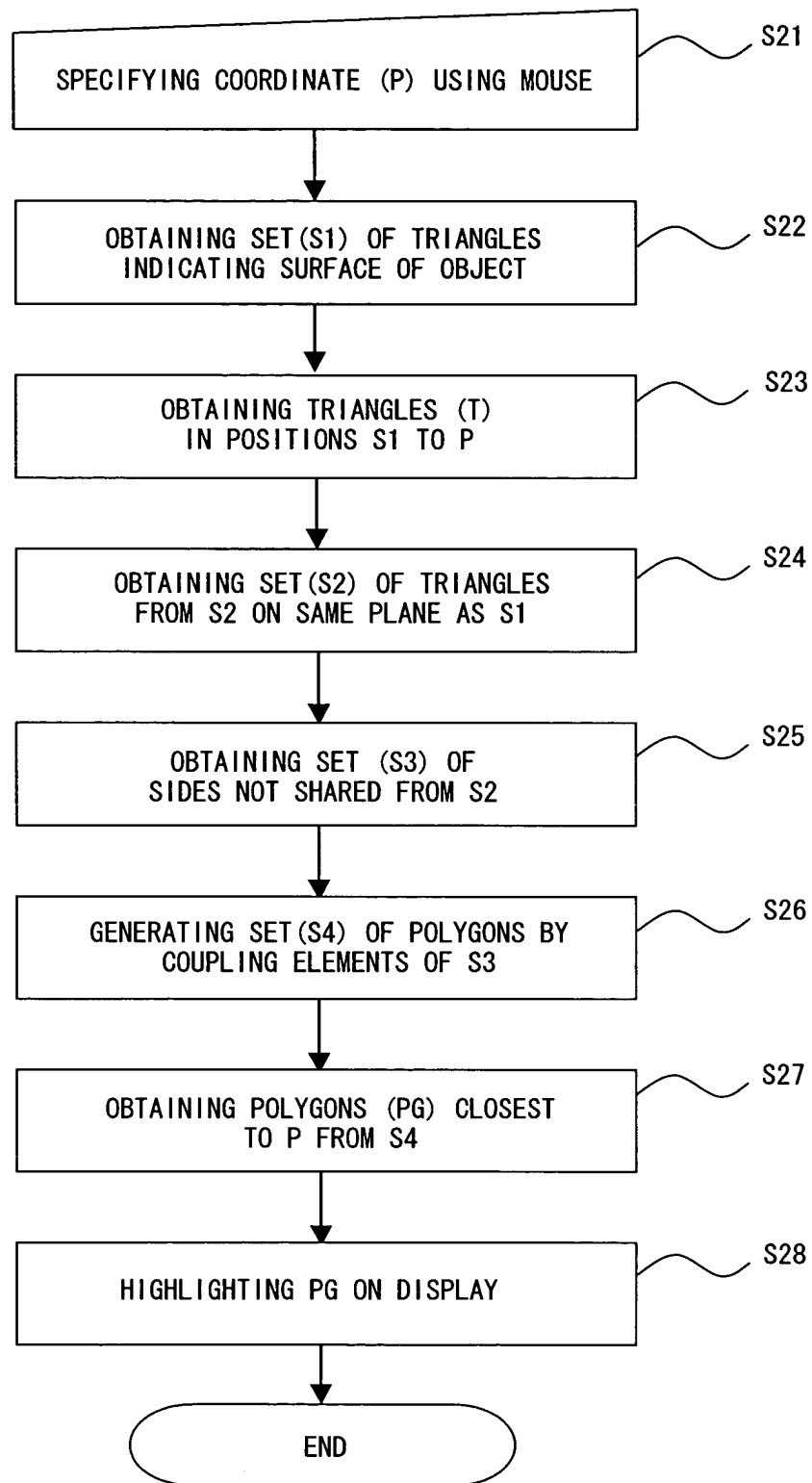


FIG. 26

## DATA STRUCTURE OF SHAPE DATA

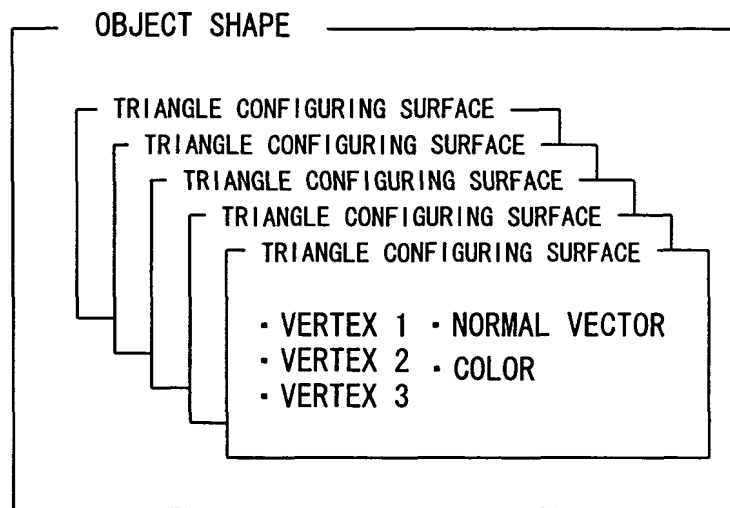


FIG. 27A

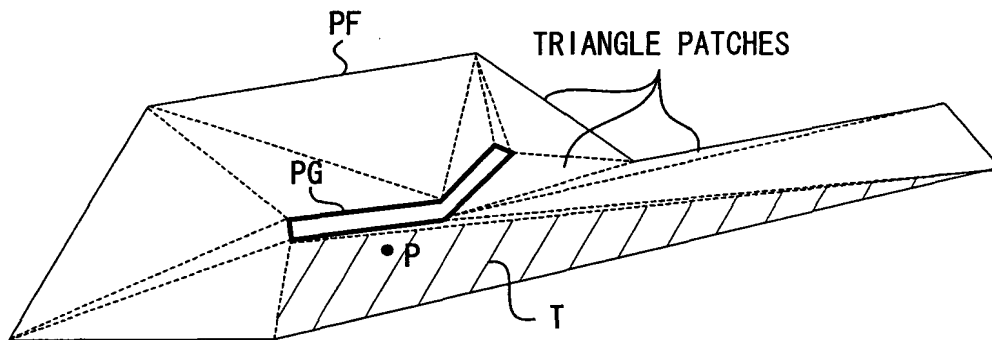


FIG. 27B

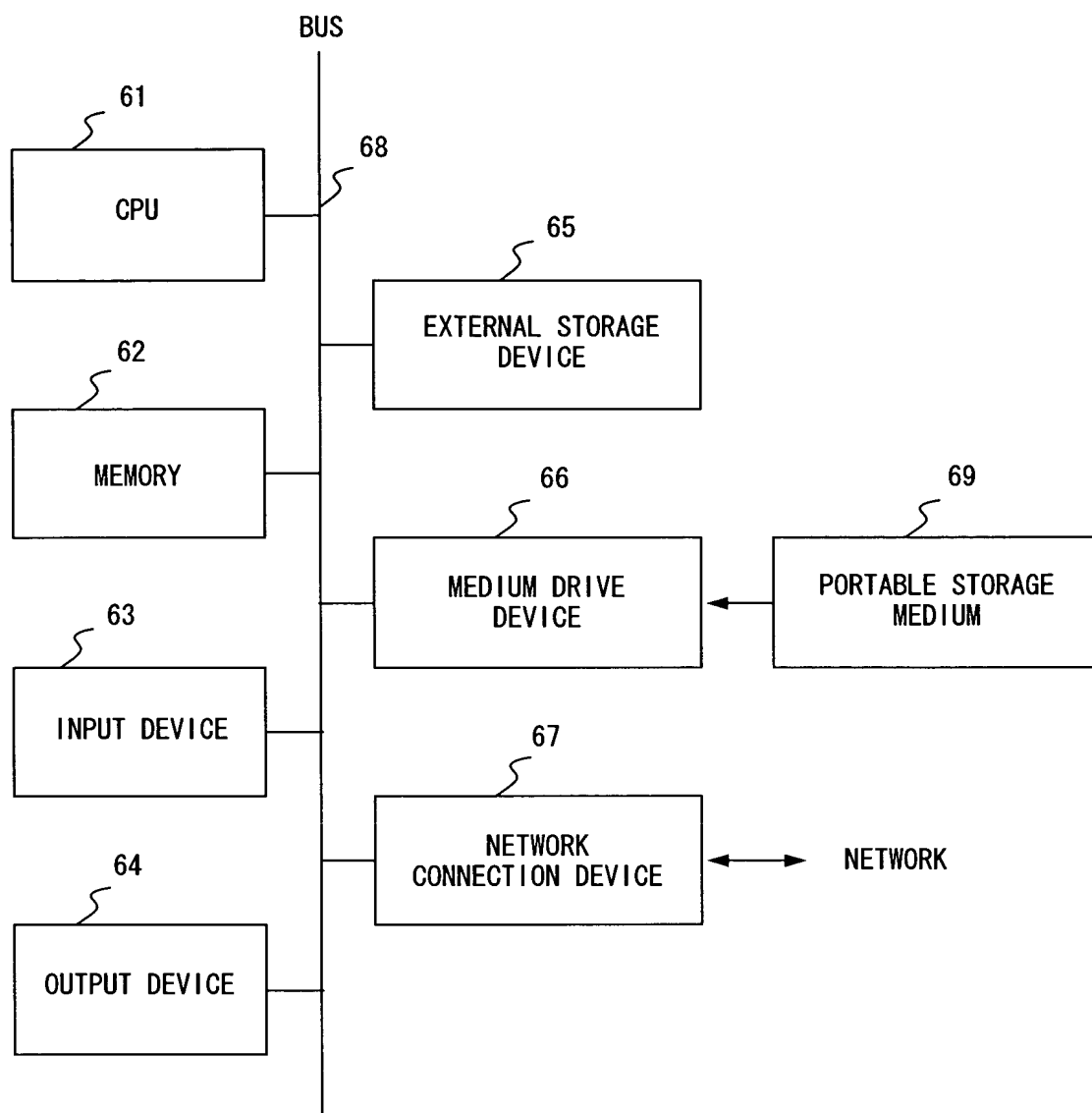


FIG. 28

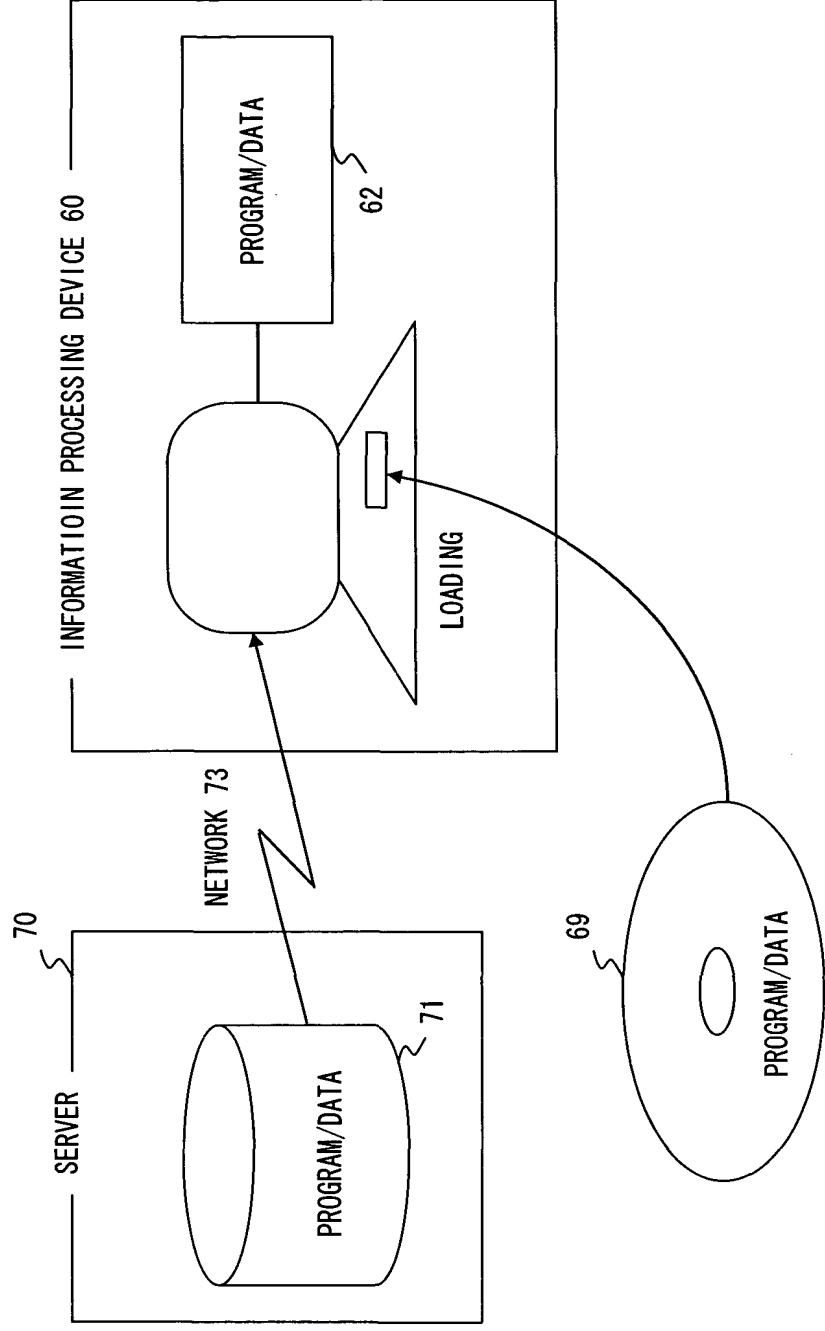


FIG. 29